

Title (en)

METHOD FOR CONNECTING A TUBULAR CABLE LUG TO A STRAND PRODUCED FROM ALUMINIUM

Title (de)

VERFAHREN ZUM VERBINDEN EINES ROHRKABELSCHUHS MIT EINER AUS ALUMINIUM HERGESTELLTEN LITZE

Title (fr)

PROCÉDÉ DE RACCORDEMENT D'UNE COSSE DE CÂBLE TUBULAIRE À UN CONDUCTEUR MULTIBRINS EN ALUMINIUM

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Application

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Abstract (en)

[origin: WO2014161823A1] The invention relates to a method for connecting a tubular cable lug (2) made from a nonferrous metal to a strand (11) produced from aluminium, comprising the following steps: providing a tubular cable lug (2) having a tubular portion (3) and a connecting portion (4) extending therefrom; providing an ultrasound welding device having a sonotrode (5) that has a comb-like curved pressure surface (7) and an anvil (1) having a comb-like curved mating pressure surface (10); fixing the connecting portion (4) to the anvil (1) by clamping in such a manner that the tubular portion (3) faces the mating pressure surface (10) of the anvil (1); inserting one end (E) of the strand (11) into the tubular portion (3) of the tubular cable lug (2); bringing the pressure surface (7) into contact with the tubular portion (3); pressing the pressure surface (7) against the tubular portion (3) such that the tubular portion (3) is forced against the mating pressure surface (10); and generating an ultrasound vibration oriented approximately perpendicular to a tube axis (A1) of the tubular portion (3) by means of the sonotrode (5) in such a manner that the tubular portion (3) is deformed and welded, at least in portions, to the aluminium strand (11) inserted therein.

IPC 8 full level

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